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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/521,730

03/09/2000

Kotikalapudi Sriram

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07/12/2005

LUCENT TECHNOLOGIES INC.

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EXAMINER

NGUYEN, TOAN D

ART UNIT

PAPER NUMBER

2665

DATE MAILED: 07/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/521,730

Applicant(s)

SRIRAM ET AL.

Examiner

Toan D. Nguyen

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 04 April 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-6,9-12,15-18 and 28-31 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6,9-12,15-18 and 28-31 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 March 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1-3 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayano et al (US 5,132,966) in view of Bruno et al (US 5,894,475).

For claim 1, Hayano et al disclose call control with transmission priority in a packet communications network of an ATM type, comprising the steps of:

receiving an incoming call, the incoming call representing one of a plurality of call types comprising voice calls and non-voice calls that can use a facility (figure 1, references 10-12, col. 4 lines 8-11 and col. 5 lines 10-17);

admitting the incoming call for using the facility as a function of the call type of the incoming call (col. 4 lines 27-34 and col. 5 lines 23-38).

However, Hayano et al do not expressly disclose updating a count of a number of voice calls currently admitted, when the admitted incoming call is a voice call. In an analogous art, Bruno et al disclose updating a count of a number of voice calls currently admitted, when the admitted incoming call is a voice call (figure 3, col. 5 lines 24-32).

One skilled in the art would have recognized updating a count of a number of voice calls currently admitted, and would have applied Bruno et al's data collection unit in Hayano et al's admission control. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Bruno et al's switched voice and data ATM network with billing system in Hayano et al's call control with transmission priority in a packet communication network of an ATM type with the motivation being updates the call table 40 for the VPI/VCI with the call completion time (col. 5 lines 27-32).

For claim 2, Hayano et al disclose:

- (a) associating with each call type a call bandwidth (figure 5, col. 5 lines 7-17);
- (b) admitting the incoming call if the call bandwidth of the incoming call is not greater than a spare bandwidth that is associated with the virtual circuit (col. 5 lines 23-38).

For claim 3, Hayano et al disclose identifying the call type of the incoming call prior to performing step (b) (col. 4 lines 10-11 and col. 5 lines 10-17).

For claim 9, Hayano et al disclose call control with transmission priority in a packet communications network of an ATM type, comprising the steps of:

determining a call type of an incoming call, each call type having an associated bandwidth (figure 1, references 10-12, col. 4 lines 8-11 and col. 5 lines 10-17);

admitting the incoming call to use the virtual circuit if the associated bandwidth of the incoming call is not greater than a spare bandwidth that is associated with the virtual circuit (col. 4 lines 27-34 and col. 5 lines 23-38).

However, Hayano et al do not expressly disclose updating a count of a number of voice calls currently admitted, when the admitted incoming call is a voice call. In an analogous art, Bruno et al disclose updating a count of a number of voice calls currently admitted, when the admitted incoming call is a voice call (figure 3, col. 5 lines 24-32).

One skilled in the art would have recognized updating a count of a number of voice calls currently admitted, and would have applied Bruno et al's data collection unit in Hayano et al's admission control. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Bruno et al's switched voice and data ATM network with billing system in Hayano et al's call control with transmission priority in a packet communication network of an ATM type with the motivation being updates the call table 40 for the VPI/VCI with the call completion time (col. 5 lines 27-32).

4. Claims 4 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayano et al (US 5,132,966) in view of Bruno et al (US 5,894,475) further in view of Miyagi et al (US 5,894,471).

For claim 4, Hayano et al in view of Bruno et al do not expressly disclose the step of blocking the incoming call if the incoming call is not admitted. In an analogous art, Miyagi et al disclose the step of blocking the incoming call if the incoming call is not admitted (col. 13 lines 40-46).

One skilled in the art would have recognized the step of blocking the incoming call if the incoming call is not admitted, and would have applied Miyagi et al's connection admission control in Hayano et al's admission control. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Miyagi et al's ATM network system and connection admission control method in Hayano et al's call control with transmission priority in a packet communication network of an ATM type with the motivation being to provide call blocking due to the lack of bandwidth (col. 13 lines 40-41).

For claim 10, the claim is directed to the same subject matter in claim 4. Therefore, it is subjected to the same rejection.

5. Claims 5-6 and 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayano et al (US 5,132,966) in view of Bruno et al (US 5,894,475) further in view of Davis (US 6,157,654).

For claim 5, Hayano et al in view of Bruno et al do not expressly disclose wherein step (b) further includes the step of reducing the spare bandwidth by an amount equal to the call bandwidth of the admitted incoming call. In an analogous art, Davis discloses the step of reducing the spare bandwidth by an amount equal to the call bandwidth of the admitted incoming call (col. 6 line 65 to col. 7 line 3). Davis discloses further the

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step of increasing the spare bandwidth by an amount equal to the call bandwidth of the admitted incoming call when the admitted incoming call departs (col. 7 lines 6-9 as set forth in claim 6).

One skilled in the art would have recognized the step of reducing the spare bandwidth by an amount equal to the call bandwidth of the admitted incoming call, and would have applied Davis's WFG Control in Hayano et al's admission control.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Davis adaptive service weight assignment for ATM scheduling in Hayano et al's call control with transmission priority in a packet communication network of an ATM type with the motivation being to provide WFQ Control to determine whether the demand can be met by the existing queue weights by comparing the request with the queue part allocated to the queue (col. 6 line 65 to col. 7 line 1).

For claim 11, the claim is directed to the same subject matter in claim 5. Therefore, it is subjected to the same rejection.

For claim 12, the claim is directed to the same subject matter in claim 6. Therefore, it is subjected to the same rejection.

6. Claims 15 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayano et al (US 5,132,966) in view of Bruno et al (US 5,894,475) further in view of Kawase et al (US 5,774,455).

For claim 15, Hayano et al disclose call control with transmission priority in a packet communications network of an ATM type, comprising the steps of:

determining a call type of an incoming call, each call type having an associated bandwidth (figure 1, references 10-12, col. 4 lines 8-11 and col. 5 lines 10-17);

admitting the incoming call to use the virtual circuit if the associated bandwidth of the incoming call is not greater than a spare bandwidth that is associated with the virtual circuit (col. 4 lines 27-34 and col. 5 lines 23-38).

responsive to the admitted call, providing a stream of ATM packets for conveying information associated with the admitted call (col. 4 lines 27-34 and col. 5 lines 23-38);  
and

responsive to the stream of packets, providing a respective stream of ATM cells for transmission over the virtual circuit (col. 4 lines 27-34 and col. 5 lines 23-38).

updating a count of a number of voice calls currently admitted, when the admitted incoming call is a voice call.

However, Hayano et al do not expressly disclose updating a count of a number of voice calls currently admitted, when the admitted incoming call is a voice call. In an analogous art, Bruno et al disclose updating a count of a number of voice calls currently admitted, when the admitted incoming call is a voice call (figure 3, col. 5 lines 24-32).

One skilled in the art would have recognized updating a count of a number of voice calls currently admitted, and would have applied Bruno et al's data collection unit in Hayano et al's admission control. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Bruno et al's switched voice and data ATM network with billing system in Hayano et al's call control with transmission priority in a packet communication network of an ATM type with the



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motivation being updates the call table 40 for the VPI/CI with the call completion time (col. 5 lines 27-32).

Furthermore, Hayano et al in view of Bruno et al do not expressly disclose a stream of ATM Adaption Layer 2 (AAL2) packets. In an analogous art, Kawase et al disclose a stream of ATM Adaption Layer 2 (AAL2) packets (col. 1 line 29).

One skilled in the art would have recognized a stream of ATM Adaption Layer 2 (AAL2) packets, and would have applied Kawase et al's variable speed service in Hayano et al's admission control. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Kawase et al's data transmission apparatus and method and data communication system conducting variable bit-rate data transmission in Hayano et al's call control with transmission priority in a packet communication network of an ATM type with the motivation being to provide a communication speed with flexibility from low to high (col. 1 lines 27-30).

For claim 28, Hayano et al disclose call control with transmission priority in a packet communications network of an ATM type, comprising the steps of:

a call classifier (figure 6, reference step 39, col. 6 lines 8-12) for determining a call type of an incoming call; each call type having an associated bandwidth (figure 1, references 10-12, col. 4 lines 8-11 and col. 5 lines 10-17) and for admitting the incoming call to use the virtual circuit if the associated bandwidth of the incoming call is not greater than a spare bandwidth that is associated with the virtual circuit (col. 4 lines 27-34 and col. 5 lines 23-38);

a processor responsive to the admitted call (figure 6, reference 37, col. 6 lines 4-7), providing a stream of packets for conveying information associated with the admitted call (col. 4 lines 27-34 and col. 5 lines 23-38); and

a processor responsive to the stream of packets, providing a respective stream of ATM cells for transmission over the virtual circuit (col. 4 lines 27-34 and col. 5 lines 23-38).

However, Hayano et al do not expressly disclose updating a count of a number of voice calls currently admitted, when the admitted incoming call is a voice call. In an analogous art, Bruno et al disclose updating a count of a number of voice calls currently admitted, when the admitted incoming call is a voice call (figure 3, col. 5 lines 24-32).

One skilled in the art would have recognized updating a count of a number of voice calls currently admitted, and would have applied Bruno et al's data collection unit in Hayano et al's admission control. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Bruno et al's switched voice and data ATM network with billing system in Hayano et al's call control with transmission priority in a packet communication network of an ATM type with the motivation being updates the call table 40 for the VPI/VCI with the call completion time (col. 5 lines 27-32).

Furthermore, Hayano et al in view of Bruno et al do not expressly disclose a stream of ATM Adaption Layer 2 (AAL2) packets. In an analogous art, Kawase et al disclose a stream of ATM Adaption Layer 2 (AAL2) packets (col. 1 line 29).

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One skilled in the art would have recognized a stream of ATM Adaption Layer 2 (AAL2) packets, and would have applied Kawase et al's variable speed service in Hayano et al's admission control. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Kawase et al's data transmission apparatus and method and data communication system conducting variable bit-rate data transmission in Hayano et al's call control with transmission priority in a packet communication network of an ATM type with the motivation being to provide a communication speed with flexibility from low to high (col. 1 lines 27-30).

7. Claims 16 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayano et al (US 5,132,966) in view of Bruno et al (US 5,894,475) further in view of Kawase et al (US 5,774,455) and Miyagi et al (US 5,894,471).

For claim 16, Hayano et al in view of Bruno et al and Kawase et al do not expressly disclose the step of blocking the incoming call if the incoming call is not admitted. In an analogous art, Miyagi et al disclose the step of blocking the incoming call if the incoming call is not admitted (col. 13 lines 40-46).

One skilled in the art would have recognized the step of blocking the incoming call if the incoming call is not admitted, and would have applied Miyagi et al's connection admission control in Hayano et al's admission control. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Miyagi et al's ATM network system and connection admission control method in Hayano et al's call control with transmission priority in a packet communication network of an

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ATM type with the motivation being to provide call blocking due to the lack of bandwidth (col. 13 lines 40-41).

For claim 29, the claim is directed to the same subject matter in claim 16.

Therefore, it is subjected to the same rejection.

8. Claims 17-18 and 30-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayano et al (US 5,132,966) in view of Bruno et al (US 5,894,475) further in view of Kawase et al (US 5,774,455) and Davis (US 6,157,654).

For claim 17, Hayano et al in view of Bruno et al do not expressly disclose wherein the admitting step of reducing the spare bandwidth by an amount equal to the call bandwidth of the admitted incoming call. In an analogous art, Davis discloses the step of reducing the spare bandwidth by an amount equal to the call bandwidth of the admitted incoming call (col. 6 line 65 to col. 7 line 3). Davis discloses further the step of increasing the spare bandwidth by an amount equal to the call bandwidth of the admitted incoming call when the admitted incoming call departs (col. 7 lines 6-9 as set forth in claim 18).

One skilled in the art would have recognized the step of reducing the spare bandwidth by an amount equal to the call bandwidth of the admitted incoming call, and would have applied Davis's WFG Control in Hayano et al's admission control.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Davis adaptive service weight assignment for ATM scheduling in Hayano et al's call control with transmission priority in a packet communication network of an ATM type with the motivation being to provide WFQ Control to determine whether

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the demand can be met by the existing queue weights by comparing the request with the queue part allocated to the queue (col. 6 line 65 to col. 7 line 1).

For claim 30, the claim is directed to the same subject matter in claim 10. Therefore, it is subjected to the same rejection.

For claim 31, the claim is directed to the same subject matter in claim 10. Therefore, it is subjected to the same rejection.

### ***Response to Arguments***

9. Applicant's arguments with respect to claims 1-6, 9-12, 15-18, and 28-31 have been considered but are moot in view of the new ground(s) of rejection.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan D. Nguyen whose telephone number is 571-272-3153. The examiner can normally be reached on M-F (7:00AM-4:30PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

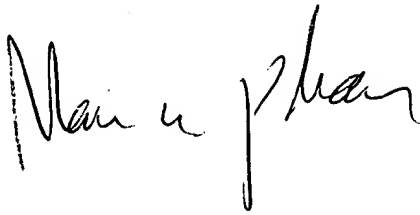
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A handwritten signature in black ink, appearing to read "Man U. Phan". The signature is written in a cursive, flowing style with a large initial "M" and a long, sweeping underline.

MAN U. PHAN  
PRIMARY EXAMINER